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(54) PROTEINACEOUS VERY FINE PARTICLE AND ITS PRODUCTION

(57) Abstract:

PURPOSE: To obtain the subject particles useful as a fat substitute having smooth and glossy solid fat and oil-like physical properties without heating and high shearing by treating a solution of a whey protein containing a metal element by a specific method.

CONSTITUTION: First, the pH of a solution of a whey protein containing a metal element (preferably Ca) is reduced with hydrochloric acid to preferably 3-5 under

non-heating conditions to remove insoluble materials such as casein. Then the pH of the solution is raised preferably to 7 and the solution is mixed with a hydrophilic organic solvent (preferably ethanol) to deposit the objective particles. The solution of the whey protein containing the metal element preferably has 0.1-5wt.% protein concentration and 1.5 millimol-1.5mol metal element concentration based on 1g whey protein. The mount of the hydrophilic organic solvent used is preferably 0.5-2 times (V/V) as much as the solution of the whey protein.

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